## **Claims**

What is claimed is:

1. A method of serving data to a plurality of clients in a client-server environment, comprising the steps of:

providing a plurality of versions of data in which at least two versions have different overheads associated therewith;

assigning individual clients to one of a plurality of quality-of-service classes; and satisfying requests so that a client belonging to a high quality-of-service class is given preferential access to data versions which require higher overheads to serve.

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- 2. The method of claim 1, wherein the overhead to serve a version is correlated with a quality of the version.
- 3. The method of claim 2, wherein the multiple versions comprise images of different resolutions and clients belonging to a high quality-of-service class are given preferential access to higher resolution images.
- 4. The method of claim 2, wherein the quality of a version is correlated with a processing time required to create the version.

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- 5. The method of claim 1, wherein the overhead to serve a version is correlated with how current the version is.
  - 6. The method of claim 1, further comprising the step of:

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in response to a system load exceeding a threshold, satisfying a higher percentage of requests from clients belonging to a lower quality-of-service class with a version requiring lower overhead to serve.

- 7. The method of claim 1, wherein the server comprises multiple nodes and different nodes provide data versions requiring different overheads to serve.
- 8. The method of claim 1, further comprising the step of implementing a quality-of-service policy that specifies at least one of content quality and latency.
- 9. The method of claim 8, wherein one or more clients belonging to a premium service class are served with high content quality and low latency.
- 10. The method of claim 8, wherein one or more clients belonging to a medium service class are served with one of high content quality and low latency.
- 11. The method of claim 8, wherein one or more clients belonging to a best-effort service class are served with unspecified content quality and latency.
- 12. The method of claim 1, wherein a client request is routed using at least one of an identity of the client, a quality of content, a load on at least one server, a data distribution on at least one server, and a capacity of at least one server.
- 13 The method of claim 1, wherein a client is assigned to a quality-of-service class by program logic that is externalized from the server.
- 14 The method of claim 13, wherein the externalized program logic comprises a set of business rules that can be modified by nonexperts in information technology.

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- 15. The method of claim 1, further comprising the step of satisfying requests using a policy determined by program logic that is externalized from the server.
- 16. The method of claim 15, wherein the externalized program logic comprises a set of business rules that can be modified by nonexperts in information technology.

17. Apparatus for serving data to a plurality of clients in a client-server environment, comprising:

a memory, and

at least one processor coupled to the memory and operative to: (i) provide a plurality of versions of data in which at least two versions have different overheads associated therewith; (ii) assign individual clients to one of a plurality of quality-of-service classes; and (iii) satisfy requests so that a client belonging to a high quality-of-service class is given preferential access to data versions which require higher overheads to serve.

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- 18. The apparatus of claim 17, wherein the overhead to serve a version is correlated with a quality of the version.
- 19. The apparatus of claim 18, wherein the multiple versions comprise images of different resolutions and clients belonging to a high quality-of-service class are given preferential access to higher resolution images.
  - 20. The apparatus of claim 18, wherein the quality of a version is correlated with a processing time required to create the version.

- 21. The apparatus of claim 17, wherein the overhead to serve a version is correlated with how current the version is.
- 22. The apparatus of claim 17, wherein the at least one processor is further operative to, in response to a system load exceeding a threshold, satisfy a higher percentage of requests from clients belonging to a lower quality-of-service class with a version requiring lower overhead to serve.
- 23. The apparatus of claim 17, wherein the at least one processor comprises multiple nodes and different nodes provide data versions requiring different overheads to serve.
  - 24. The apparatus of claim 17, wherein the at least one processor is further operative to implement a quality-of-service policy that specifies at least one of content quality and latency.
- 25. The apparatus of claim 24, wherein one or more clients belonging to a premium service class are served with high content quality and low latency.
- 26. The apparatus of claim 24, wherein one or more clients belonging to a medium service class are served with one of high content quality and low latency.
- 27. The apparatus of claim 24, wherein one or more clients belonging to a best-effort service class are served with unspecified content quality and latency.

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- 28. The apparatus of claim 17, wherein a client request is routed using at least one of an identity of the client, a quality of content, a load on at least one server, a data distribution on at least one server, and a capacity of at least one server.
- 29. An article of manufacture for use in serving data to a plurality of clients in a client-server environment, comprising a machine readable medium containing one or more programs which when executed implement the steps of:

providing a plurality of versions of data in which at least two versions have different overheads associated therewith;

assigning individual clients to one of a plurality of quality-of-service classes; and satisfying requests so that a client belonging to a high quality-of-service class is given preferential access to data versions which require higher overheads to serve.

30. A system, comprising:

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a plurality of clients, each client belonging to a quality-of-service class;

a load balancer for sending requests from clients to at least one back-end server; and

at least one back-end server for providing a plurality of versions of different objects in which at least two versions of an object have different overheads associated therewith.

31. A method of providing a data serving service, comprising the step of:

a service provider: (i) providing a plurality of versions of data in which at least two versions have different overheads associated therewith; (ii) assigning individual clients to one of a plurality of quality-of-service classes; and (iii) satisfying requests so that a client belonging to a high quality-of-service class is given preferential access to data versions which require higher overheads to serve.

- 32. The method of claim 31, wherein the data serving service comprises a quality-of-service policy specification.
- 33. The method of claim 32, wherein the quality-of-service policy specification comprises:

a plurality of subscriptions, each subscription being specified by content quality and service latency, wherein a limited premium service subscription is served with high content quality in low service latency, a medium service subscription is served with a high content quality or a low service latency, and an unlimited best-effort service subscription is served with unspecified content quality and latency.

- 34. The method of claim 31, wherein the service provider modifies data content and how the data content is served to clients in response to one or more changing conditions.
  - 35. The method of claim 34, wherein one or more changing conditions comprises a source of a bottleneck.
- 36. The method of claim 31, wherein the step of assigning individual clients to one of a plurality of quality-of-service classes is based on a client payment.
  - 37. A method of serving data to a plurality of clients, comprising the steps of: establishing at least two quality-of-service classes; and

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satisfying requests so that a client belonging to one quality-of-service class is served with a data version having one overhead associated therewith, while a client belonging to another quality-of-service class is served with a data version having another overhead associated therewith.